Red Hill SOW Section 2 - Tank Inspection (TIRM) Scoping Meeting

TIRM Expectations of Each Stakeholder:

- Enterprise = no more repeats of tank #5
- DOE = beefed up inspection process
- EPA = what are things that need to be done to accomplish scope with no surprises; what are options for improvement and why are they chosen? What's included?
- NAVFAC = matching and aligning schedules
- DOH = what happened? How does the process work? Evaluation of current practices
- LPA = proposed practices going forward
- EXWC = better QA in future and process to include inspection and repair of tanks

Our rules of engagement in this workshop:

1. if speaking, don't interrupt
2. keep an open mind. Seek to understand others point of view
3. avoid side conversations
4. stick to SRW
5. speak up
6. if asserting fact, explain why
7. acknowledge vulnerability, OK to say "I don't know", "need help"

Tank #5 lessons learned:

1. of Terri: provide an executive summary/narrative (500 words) of what happened on tank #5. What information can be released to the team. A draft of where and which part of tank #5 leaked with facts and data supporting them. Why the data was collected? To Jimmy, NLT January 31, 2016

Current TIRM procedures:

Part 1 - Inspections:

a. Non-destructive testing

1. of Terri: are inspectors using LFET and UT names noted and for areas they inspected? To Jimmy

2. of Terri: provide contract statements noting what procedures/specs they (inspectors) used. To Jimmy

3. by Terri: In the final report I will tell you/Jimmy personal equipment capabilities are re. testing

4. of Terri: identify limitations to inspection process = weather, access to tanks, etc. Inspection criteria and options. To Jimmy

b. Destructive testing

1. by Terri: I will include why we did destructive testing and what we learned from that in the final report

c. Quality Control:

1. by Terri: I can provide primary subcontractors QC plans for testing

d. Welding: N/A

Included in inspection

e. Other inspections (outline of visual of coatings, piping, etc.):

1. of Terri: existing practices; what is called out in contract; and, what's actually being done; changes to contract

2. of Terri: prep work prior to inspection

3. of Terri: did contractor or Navy require any validation?

4. of Terri: other 653 inspections? Check off those applicable

f. Pipeline inspection:

1. of Terri: what done; what was/is in contract and changes to contract

g. Re-commissioning:

1. by Terri: document when re-commission and when do not. How I achive this.

2. of Terri: why is a tank chosen? Frequency of inspection, etc.

3. of Terri: provide electronic appendix of contracts

h. Managing data:

1. of Terri: how do you document inspection and what work the contractor

did? Auditability and how this is done

Part 2 - Repair:

1. of Terri: submittal procedures for repairs

2. by Terri: all welding will be in one section

a. Tank repairs

1. of Terri: what criteria do you use to determine to do tank repair? Put this in the inspection section

b. Re-commissioning:

1. of Terri: of repair process monthly

2. of Terri: procedures at time tank #5 was being filled

3. of Terri: how up to date as-built's for each tank are kept up to date as you bring one 'down'

Part 3 - Maintenance:

1. of John: provide maintenance check list + USFC requirements and check list to Terri NLT 1/31

Options for Improvement/"Outside the Box Ideas"

#1. To speed up inspection consider a 'floating platform' with different methods for upper and lower half of tank. Move this from one tank to another

#2. Increased power to site to enable improved lighting in tunnel

#3. Consider drones and other unmanned scanning systems